

Nonminimal electrodynamics and resonance interactions in a relativistic plasma

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Abstract

A three-parameter toy model which describes a nonminimal coupling of gravity with the electromagnetic field of a relativistic two-component electrically neutral plasma, is discussed. Resonance interactions between particles and transversal waves in the plasma are shown to take place due to the curvature coupling effect. © 2009 Pleiades Publishing, Ltd.

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